

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): An apparatus for shifting a reference distance of a laser displacement sensor, wherein the apparatus is mounted on the laser displacement sensor provided with a laser beam source for generating a laser beam and a laser beam reception member, the apparatus comprising:

a transparent member having a refraction index being different from a refraction index of an air; and

a holder for supporting the transparent member in such a way that the transparent member is placed in an optical path of the laser beam;

wherein the transparent member changes a reference distance of the laser displacement sensor by changing the optical path of the laser beam, and the holder supports a plurality of transparent members.

Claim 2 (Currently Amended): The apparatus as recited in claim 1, wherein ~~the holder supports a~~ the plurality of transparent members having have a thickness different from each other.

Claim 3 (Original): The apparatus as recited in claim 2, further comprising a holder driving member for physically moving the holder in such a way that one of the plurality of transparent members is selectively placed in the optical path of the laser beam.

Claim 4 (Original): The apparatus as recited in claim 3, wherein the holder supports the plurality of transparent members in a radial direction and the holder-driving member rotatably moves the holder.

Claim 5 (Original): The apparatus as recited in claim 4, wherein the transparent member is made of a material having a refraction index being larger than a refraction index of an air.

Claim 6 (Original): The apparatus as recited in claim 4, wherein the transparent member having a refraction index larger than a refraction index of an air and made of a glass material in the form of a flat plane having a trapezoid cross-section.

Claim 7 (Previously Presented): An apparatus comprising:
a device mounted on a laser displacement sensor provided with a laser beam source for generating a laser beam and a laser beam reception member, the device including
a transparent member having a refraction index being different from a refraction index of an air; and
a holder for supporting the transparent member in such a way that the transparent member is placed in an optical path of the laser beam;
wherein the transparent member changes a reference distance of the laser displacement sensor by changing the optical path of the laser beam and the holder supports a plurality of transparent members having a thickness different from each other.

Claim 8 (Previously Presented): The apparatus as recited in claim 7, further comprising a holder driving member for physically moving the holder in such a way that one of the plurality of transparent members is selectively placed in the optical path of the laser beam.

Claim 9 (Previously Presented): The apparatus as recited in claim 8, wherein the holder supports the plurality of transparent members in a radial direction and the holder-driving member rotatably moves the holder.

Claim 10 (Previously Presented): The apparatus as recited in claim 9, wherein the transparent member is made of a material having a refraction index being larger than a refraction index of an air.

Claim 11 (Previously Presented): The apparatus as recited in claim 9, wherein the transparent member having a refraction index larger than a refraction index of an air and made of a glass material in the form of a flat plane having a trapezoid cross-section.